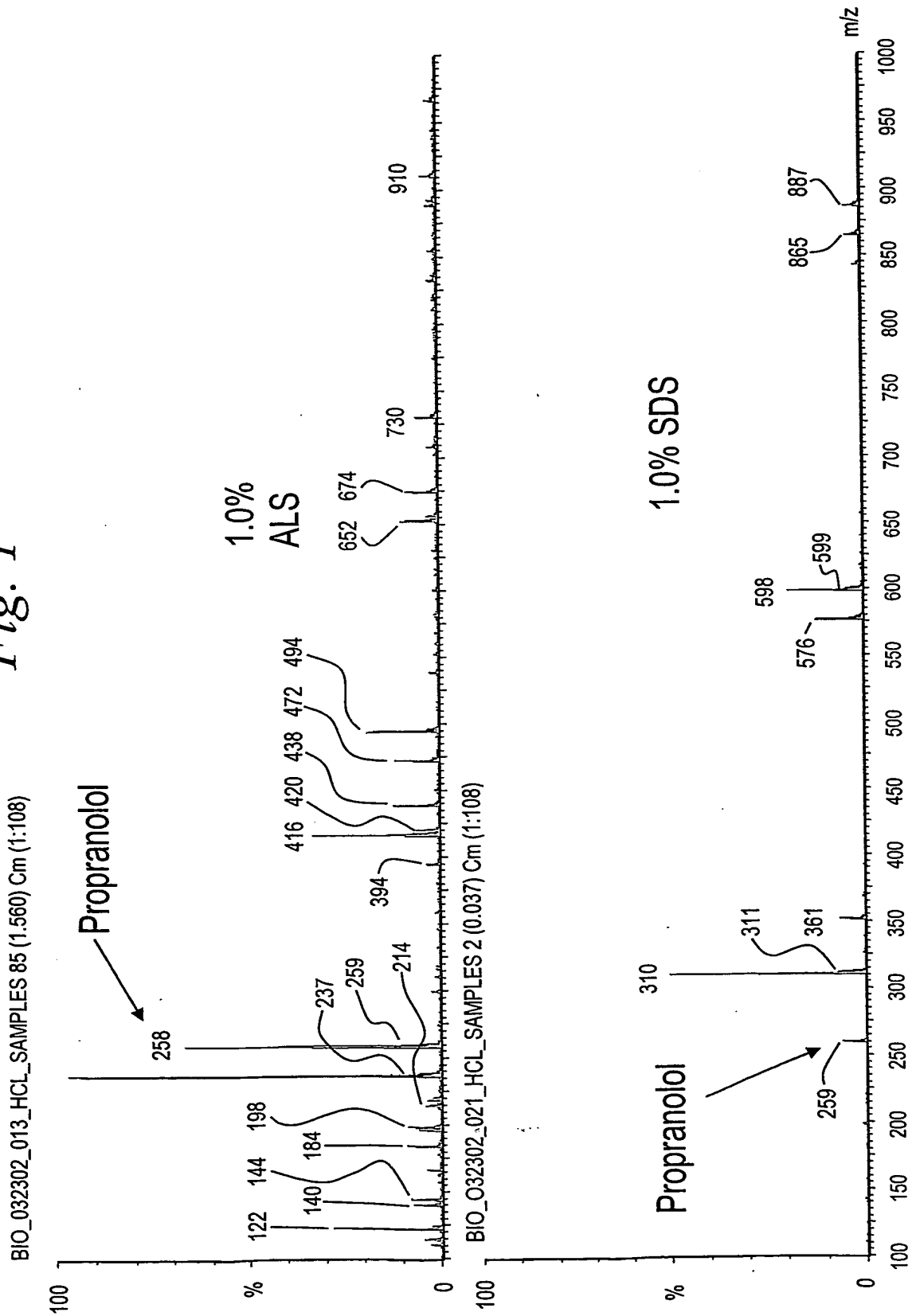


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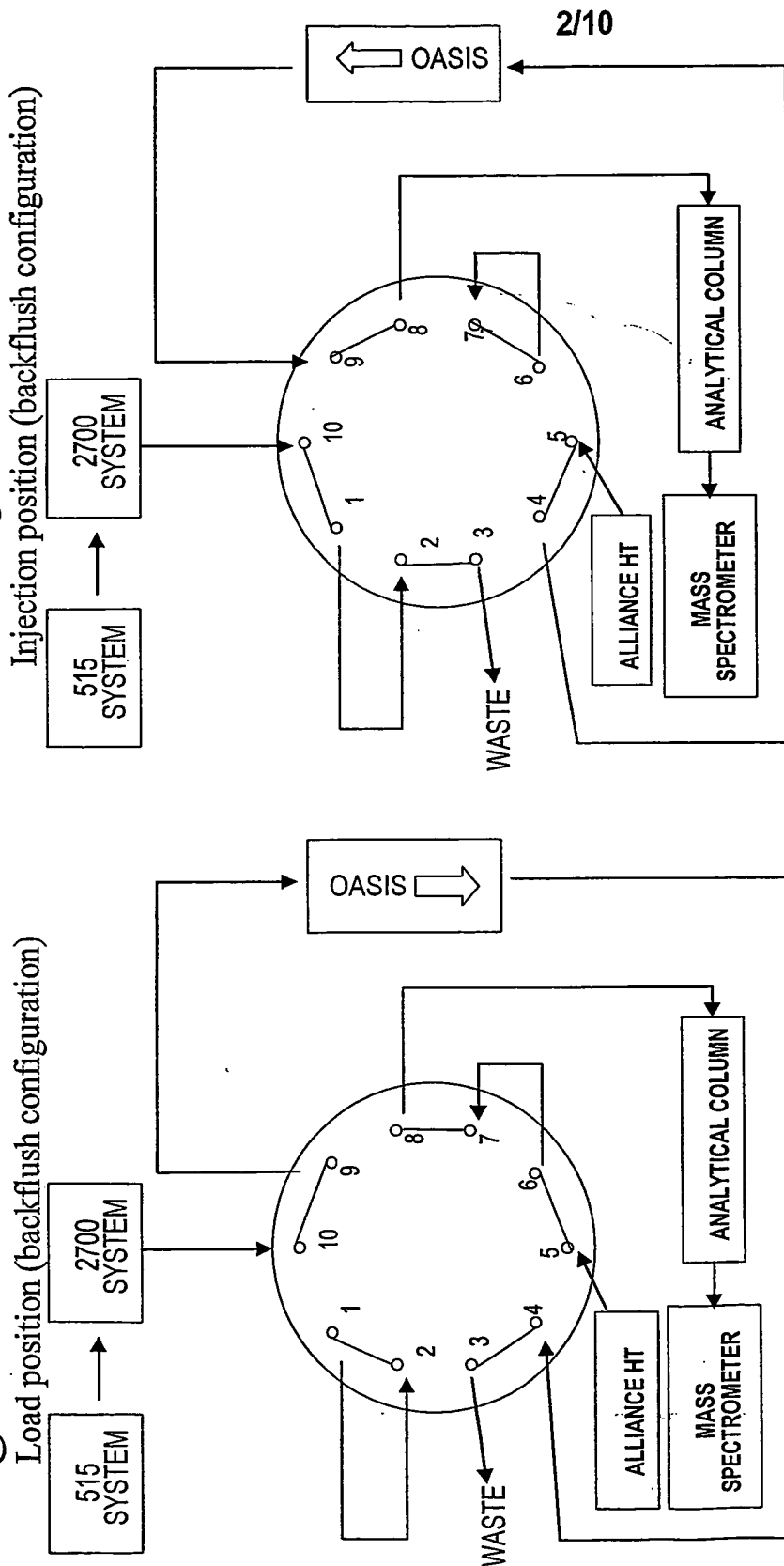
Fig. 1



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Fig. 2

Oasis® HLB/XTerra® Columns Configuration



MS: Quattro Ultima Triple Quadrupole

Source: Electrospray positive

Source temperature: 150 °C

Desolvation gas: 600 L/hr

Gas cell: 2.0e-3 mbar

Cone Voltage: 20 volts

Collision energy: 20

LC₁: Alliance 2690 - 0.4 mL/minLC₂: Waters 515 - 4.0 mL/min

Loading mobile phase: 100 % water

Eluting mobile phase: 1 minute gradient 5% ACN to 95% ACN

Eluting mobile phase additive: 0.5 % Formic acid

Extraction column temperature: room temperature

Switching valve: Rheodyne LabPro 10 ports, 2 position

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Fig. 3
HPLC Gradient and Wash Conditions

Time	HPLC gradient Flow 0.4 mL/min		Valve position	Function
	A	B		
0.0	5	95		
0.5	5	95	position 1	Loading with 100 % H ₂ O
1.5	95	5		
4.40	95	5	position 2	Elution with 1 min gradient
4.50	5	95		
6.0	5	95	position 1	Return to loading position

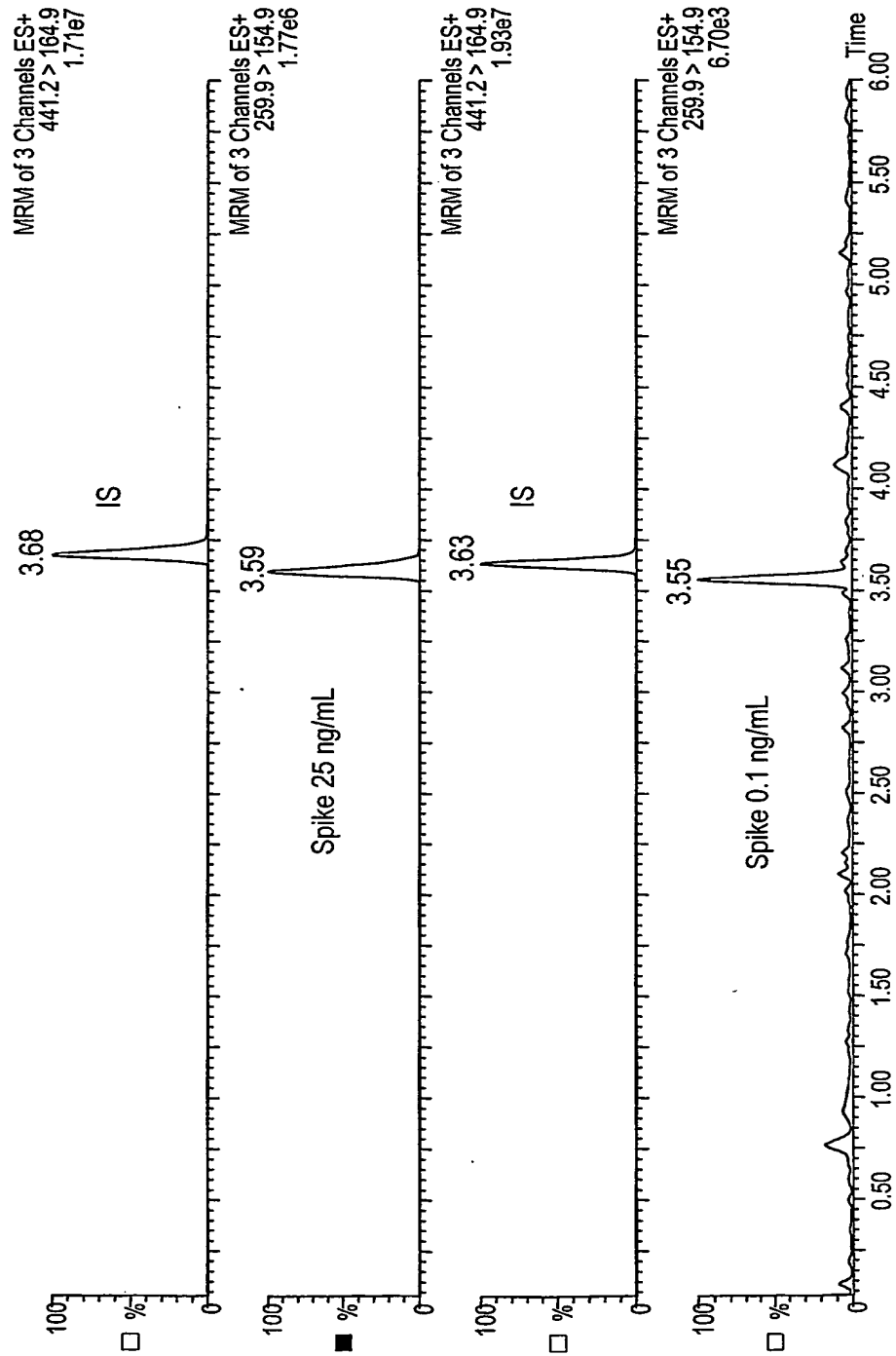
A - Acetonitrile + 0.5 % Formic Acid

B - Water + 0.5 % Formic Acid

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**50/50 MeOH/ACN Cell Lysing
Propranolol at 0.1 ng/mL and 25 ng/mL**

Fig. 4



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Fig. 5

Ion Suppression of Surfactants

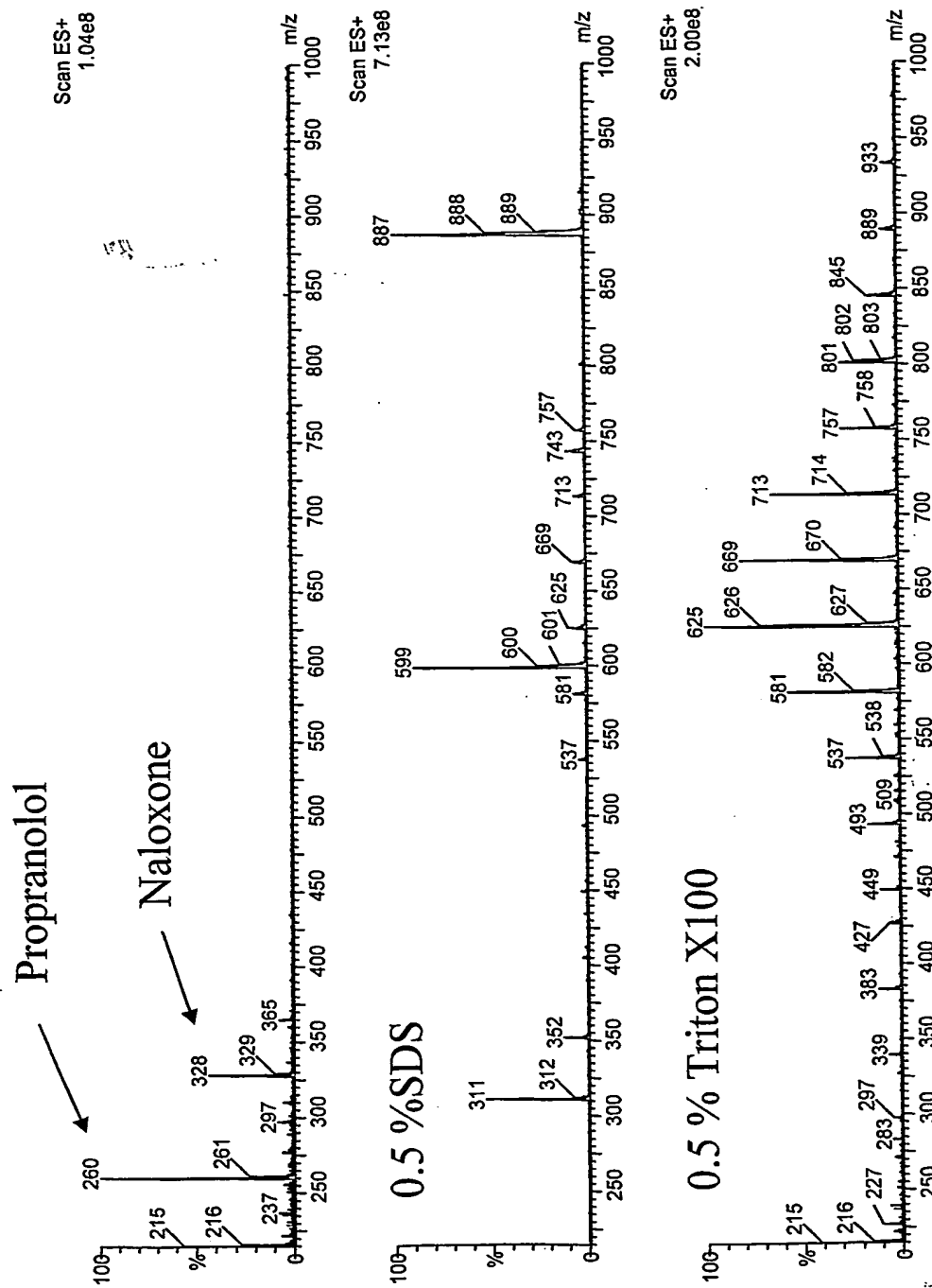
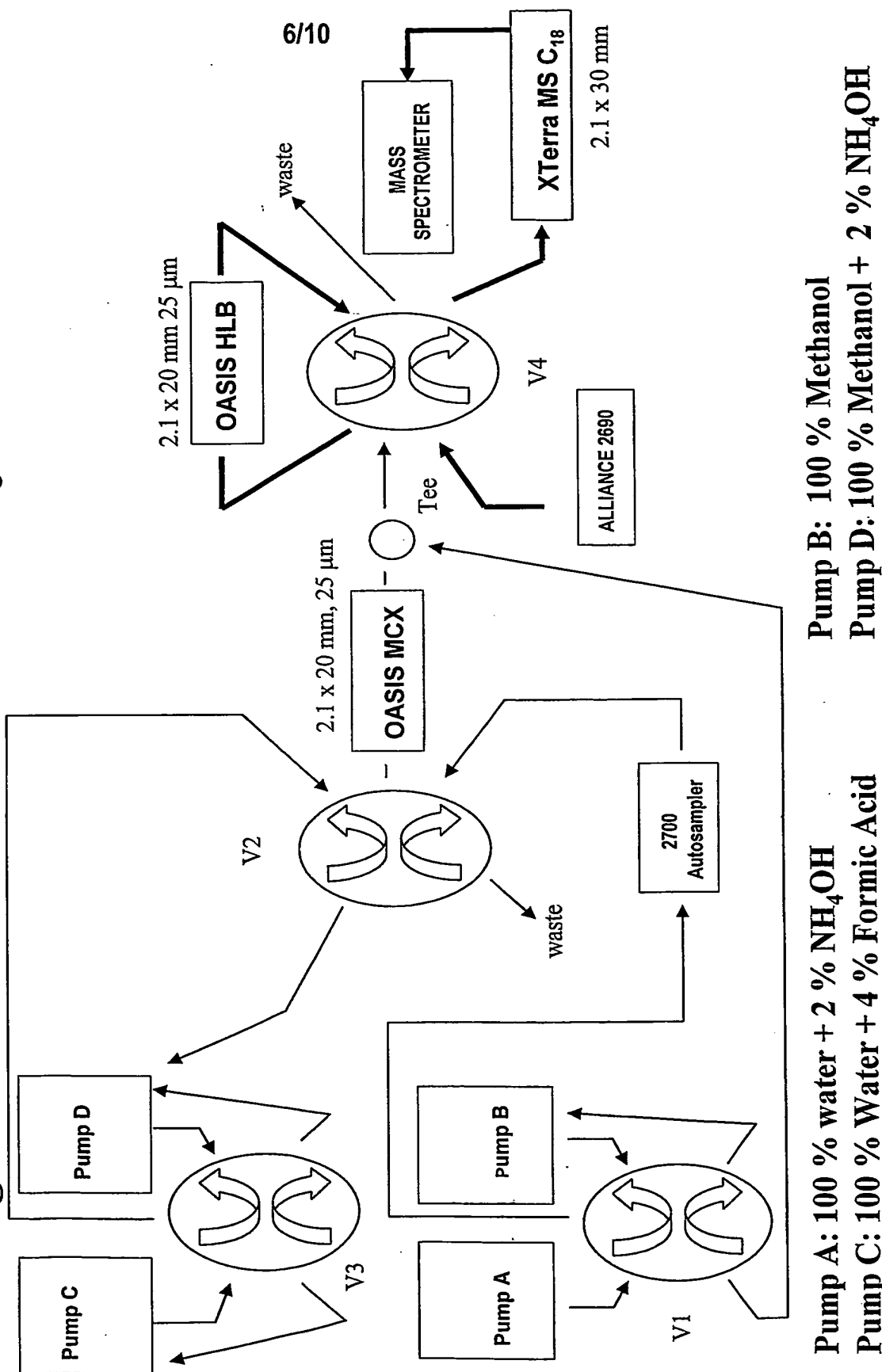


Fig. 6

Oasis® HLB / MCX / XTerra® Configuration



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Fig. 7
HPLC Gradient and Wash Conditions

Time (min)	HPLC gradient Flow 0.4 mL/min	Valve Position V1, V2, V3, V4	Function
0.0	A 5	2-2-2-2	Load 100 % H ₂ O pH 11
1.0	B 95	1-1-2-2	Wash 100 % H ₂ O pH 2
2.0	5	1-2-2-2	Wash (see chromatograms)
3.0	5	1-1-1-2	Elution of MCX onto HLB (pH 11)
4.0	5	1-1-1-1	Elution of HLB onto Xterra (pH 3)
5.0	95		
7.0	95		
7.5	5		
8.0	5	2-2-2-2	Reset to starting position
9.0	95		

A - Acetonitrile + 0.5 % Formic Acid

B - Water + 0.5 % Formic Acid

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1 % Triton X100 Cell Lysing Propranolol at 0.1 ng/mL and 25 ng/mL

Fig. 8

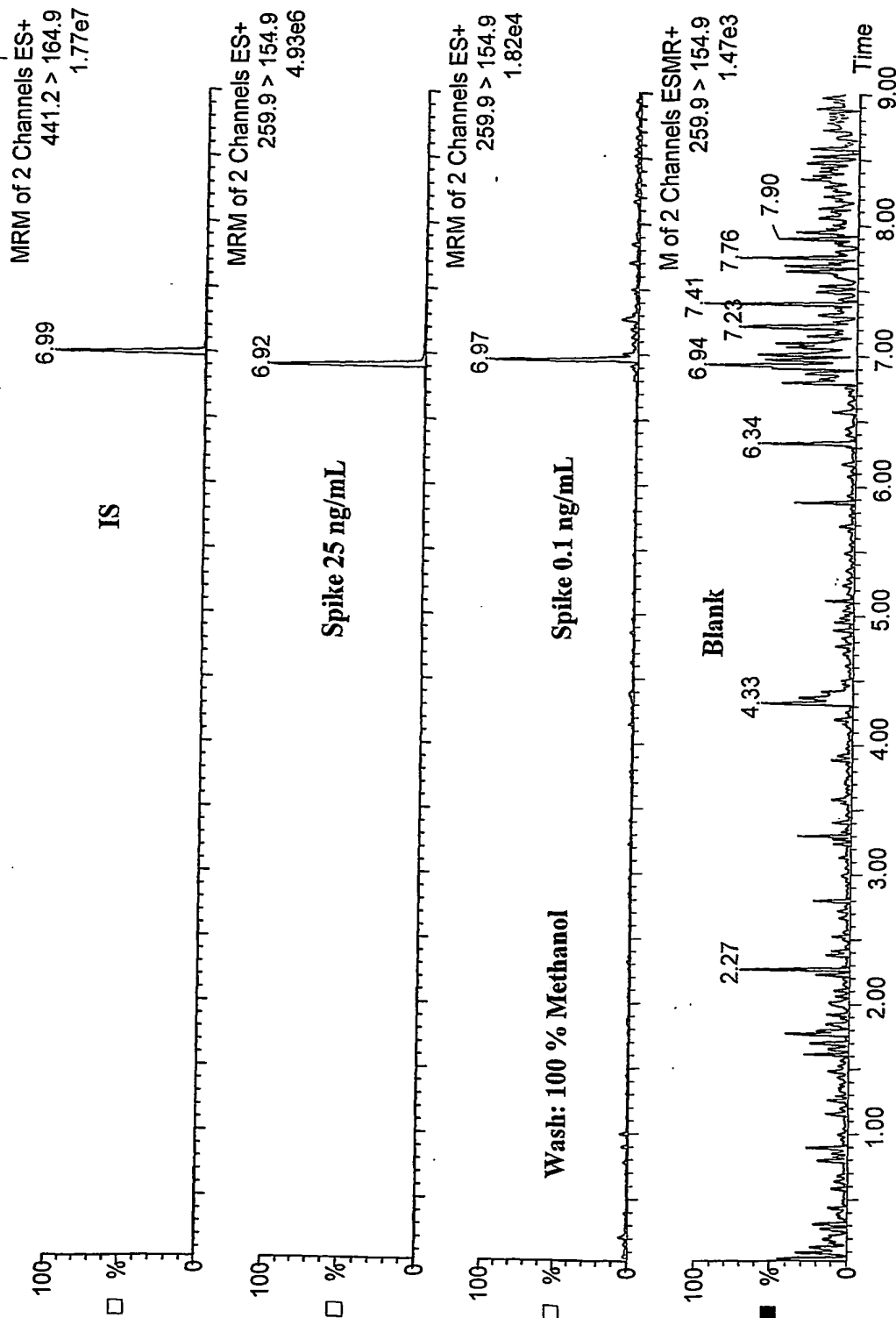


Fig. 9

**1 % SDS Cell Lysing
Propranolol at 0.1 ng/mL and 25 ng/mL**

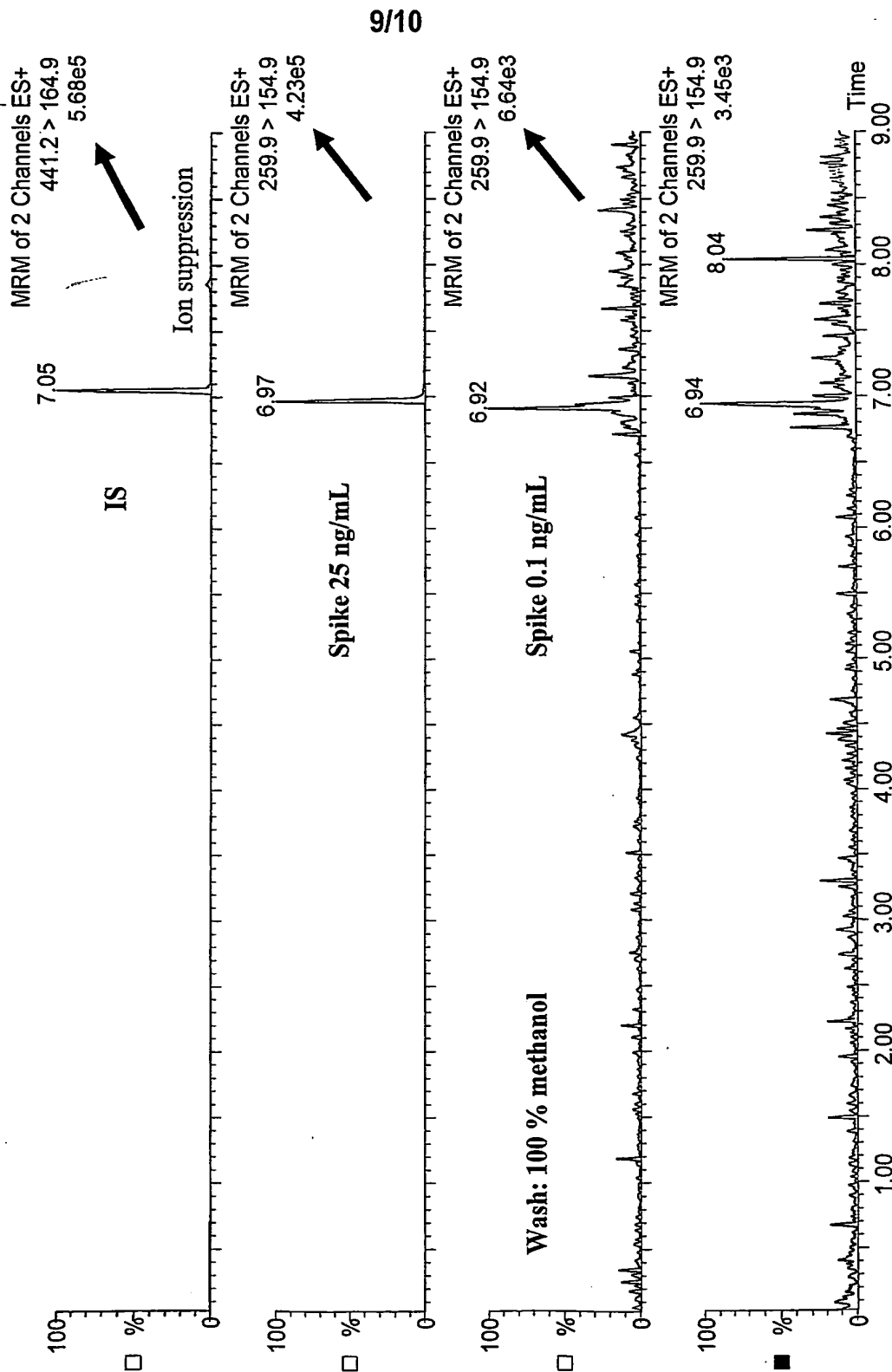


Fig. 10

1 % SDS Cell Lysing
Propranolol at 0.1 ng/mL and 25 ng/mL

